

AMENDMENTS TO THE SPECIFICATION

In the specification, please amend the paragraph starting on line 12 of page 8 as follows:

Rather than selecting three specific locations for $E(\bar{R})$, it is known that the accuracy of the solution is often improved by integrating known values of $E(\bar{R})$ using a weighting function over the region of integration. For example, assuming that $E(\bar{R})$ is known along the surface of the wire 100, then choosing three weighting functions $g_1(\ell)$, $g_2(\ell)$, and ~~$g_2(\ell)$~~ $g_3(\ell)$, the desired three equations in three unknowns can be written as follows (by multiplying both sides of the equation by $g_i(\ell)$ and integrating):

$$\begin{aligned} \int E(\ell') g_1(\ell') d\ell' &= I_1 \iint f_1(\ell) g_1(\ell') G(\ell, \ell') d\ell d\ell' + I_2 \iint f_2(\ell) g_1(\ell') G(\ell, \ell') d\ell d\ell' \\ &\quad + I_3 \iint f_3(\ell) g_1(\ell') G(\ell, \ell') d\ell d\ell' \\ \int E(\ell') g_2(\ell') d\ell' &= I_1 \iint f_1(\ell) g_2(\ell') G(\ell, \ell') d\ell d\ell' + I_2 \iint f_2(\ell) g_2(\ell') G(\ell, \ell') d\ell d\ell' \\ &\quad + I_3 \iint f_3(\ell) g_2(\ell') G(\ell, \ell') d\ell d\ell' \\ \int E(\ell') g_3(\ell') d\ell' &= I_1 \iint f_1(\ell) g_3(\ell') G(\ell, \ell') d\ell d\ell' + I_2 \iint f_2(\ell) g_3(\ell') G(\ell, \ell') d\ell d\ell' \\ &\quad + I_3 \iint f_3(\ell) g_3(\ell') G(\ell, \ell') d\ell d\ell' \end{aligned}$$

Note that the above double-integral equations reduce to the single-integral forms if the weighting functions $g_i(\ell)$ are replaced with delta functions.

Please amend the paragraph at line 10 on page 9 as follows:

$$\begin{aligned} \cancel{Z_{ij}} &= \cancel{\iint f_j(\ell) g_i(\ell') G(\ell, \ell') d\ell d\ell'} \\ Z_{ij} &= \iint f_j(\ell) g_i(\ell') G(\ell, \ell') d\ell d\ell' \end{aligned}$$

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Please amend the paragraph beginning at line 12 on page 9 as follows:

Solving the matrix equation yields the values of I_1 , I_2 , and I_3 . The values I_1 , I_2 , and I_3 can then be inserted into the equation ~~$I(\ell) \approx I_1 f_1(\ell) + I_2 f_2(\ell) + I_3 f_3(\ell)$~~ $I(\ell) \approx I_1 f_1(\ell) + I_2 f_2(\ell) + I_3 f_3(\ell)$ to give an approximation for $I(\ell)$. If the basis functions are triangular functions as shown in Figure 1B, then the resulting approximation for $I(\ell)$ is a piecewise linear approximation as shown in Figure 1C. The I_i are the unknowns and the V_i are the conditions (typically, the V_i are knowns). Often there are the same number of conditions as unknowns. In other cases, there are more conditions than unknowns or less conditions than unknown.

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SUMMARY OF INTERVIEW

The Applicant submits herewith a Statement of the Substance of the Examiner Interview held via telephone on August 10, 2005.

Exhibits and/or Demonstrations

None

Identification of Claims Discussed

Claim 1 was discussed.

Identification of Prior Art Discussed

The *Rockwell* reference cited by the Examiner was discussed.

Proposed Amendments

Applicant proposed to amend Claim 1 to clarify that at least one of the composite sources or testers is a combination of two or more original sources or testers.

Principal Arguments and Other Matters

Applicant discussed the Examiner's comments in paragraph 8-6 of the Final Office Action. Applicant also reiterated the arguments presented in the response to the first Office Action.